

## REMARKS

The foregoing amendment does not include the introduction of new matter into the present application for invention. Therefore, the Applicant, respectfully, requests that the above amendment be entered in and that the claims to the present application be, kindly, reconsidered.

The Office Action dated October 7, 2003 has been received and considered by the Applicants. Claims 1-12 are pending in the present application for invention. Claims 1-12 stand rejected by the October 7, 2003 Office Action. The foregoing amendment to the claims as added new Claim 13-20.

The Office Action rejects Claims 1-7 and 10-12 under the provisions of 35 U.S.C. §102(b), as being anticipated by Chapman (IEEE Transaction on Magnetics, V. 25, No. 5, pp. 3686-3688, 1989) (hereinafter referred to as Chapman). The Examiner states that Chapman discloses the claimed elements including a magnetic coil formed at the first side of a first substrate. The Examiner has indicated that Figs. 1a-1d of Chapman disclose this feature recited by the rejected claims. The Applicants, respectfully, disagree with this assertion contained within the Office Action. There is no magnetic coil formed on an edge of a substrate within the four corners of Chapman. The only coil disclosed within Chapman is illustrated in Figure 7 and is not formed at an edge of any substrate. Accordingly, this rejection is respectfully, traversed.

The Office Action rejects Claim 8 under the provisions of 35 U.S.C. §103(a) as being unpatentable over Chapman in view of U.S. Patent No. 6,452,742 issued to Crue et al. (hereinafter referred to as Crue et al.). The Examiner states that The Applicants would like to, respectfully point out that rejected Claim 8 recites that the heat sink is formed next to the magnetic coil during the formation of the magnetic coil. The recited magnetic coil, as previously stated, is formed at the surface of the first substrate. Crue et al. clearly illustrates that coil 140 as disclosed therein is not at the surface. Neither Chapman nor Crue et al. disclose the formation of a coil at the surface as recited by rejected Claim 8. Accordingly, this rejection is respectfully, traversed.

The Office Action rejects Claim 9 under the provisions of 35 U.S.C. §103(a) as being unpatentable over Chapman in view of U.S. Patent No. 5,978,319 issued to Wang, et, al. (hereinafter referred to as Wang et al.). The Examiner states that Chapman describes the claimed method but does not show the structure of the coil and that Wang et al. discloses the structure of the coil. The Applicants, respectfully, disagree with this assertion contained in the Office Action.

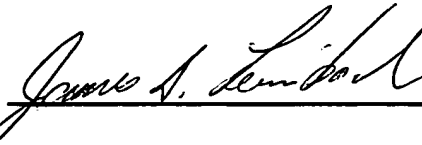
The teachings of Wang et al. relate to a coil assembly 12 that is mounted onto a slider 14. The present invention as recited by rejected Claim 9 recites a slider that is formed with a coil. The Applicants would like to, respectfully point out that Wang et al. is illustrative of the prior art problem that is solved by the present invention (e.g. see page 2, lines 21-25 of the specification to the present invention, wherein the problems associated with forming a "ditch" to place the coil in are discussed). The recited magnetic coil, as previously stated, is formed at the surface of the first substrate. Wang et al. clearly describes the independent formation of a coil to be placed on the slider afterwards and does not pertain to the formation of a slider with the coil formed on the slider. Neither Chapman nor Wang et al. disclose the formation of a coil at the air bearing surface as recited by rejected Claim 9. Accordingly, this rejection is respectfully, traversed.

New Claims 13-20 have been added by the foregoing amendment. New Claims 13-20 have a scope similar to Claims 1-12 and, therefore, do not add new matter to the present application for invention. Claims 13-20 are believed to be allowable over the cited references for the reasons previously stated regarding Claim 1-12.

Applicant is not aware of any additional patents, publications, or other information not previously submitted to the Patent and Trademark Office which would be required under 37 C.F.R. 1.99.

In view of the foregoing amendment and remarks, the Applicant believes that the present application is in condition for allowance, with such allowance being, respectfully, requested.

Respectfully submitted,

By 

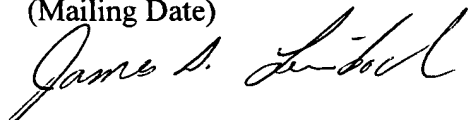
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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited this date with the United States Postal Service as first-class mail in an envelope addressed to: Mail Stop: Non-Fee Amendment, COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450

on: January 7, 2004

(Mailing Date)



(Signature)